

Invitation to create the Arabian Peninsula Climate Time Scale

(Do simple climate researches on your monsoonal climate, create your regional, country, local climate time scales and become renowned as scientists.)

Gangadhara Rao Irlapati

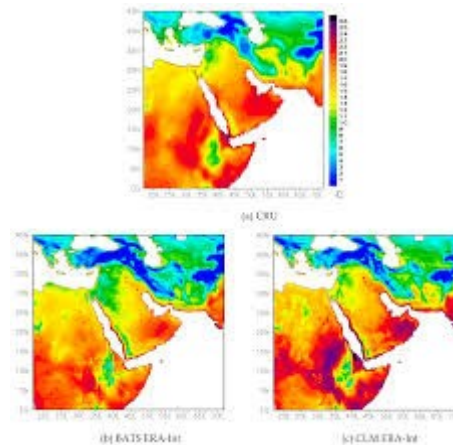
H.No.5-30-4/1,Saibabanagar,Jeedimetla,,Hyderabad,India-500055

Email: irlapatigangadhar255@gmail.com

Abstract: Arabian Peninsula Climate Time Scale is proposed and designed by me to study the Arabian Peninsula climate. This is very useful to study the Arabian Peninsula climate. So scientists can make this Arabian Peninsula Climate Time Scale and make further research&develop, promote&propagate it. Find out it by searching it's name Arabian Peninsula Climate Time Scale in all websites or can get by sending your email to irlapatigangadhar255@gmail.com Scientists who make this Arabian Peninsula Climate Time Scale have trouble in making it, kindly take my assistance in making the Arabian Peninsula Climate Time Scale. Email id to contact me is gangadhar19582058@gmail.com I will create a model Arabian Peninsula Climate Time Scale and send the same to their study. For this, they must send the list of events of climate just like dust storms, monsoon low pressure systems etc. last 140 years since 1880 formed over the Arabian Peninsula climate region in the procedure cited below reference. In addition to this, a certain amount should be sent for expenses. You need to design the computer model later.

Key Words: Indian Monsoon Time Scale, Arabian Peninsula Climate Time Scale, Arabian Peninsula climate, Indian monsoon

Introduction: The Arabian Peninsula is a peninsula of Western Asia situated north east of Africa on the Arabian plate. From a geographical perspective, it is considered a subcontinent of Asia. It is largest peninsula in the world. The peninsula consist of the countries Yemen, Oman, Qatar, Bahrain, Kuwait, Saudi Arabia and the United Arab Emirates including the Jordan, Iraq. The Arabian Peninsula is one of the world's most arid and water-stressed regions, with the summer months characterized by frequent heat waves and dust storms..



The climate of the Arabian Peninsula is extremely dry and arid. As is common in the neighboring area, the Arabian Peninsula receives very little annual rainfall. The Indian summer monsoon keeps the Arabian Peninsula hot and dry. Air circulation systems control many aspects of the Arabian Peninsula climate and can trigger severe heat waves and sand storms.

Arabian Peninsula Climate Time Scale:

Let's discuss the construction and functionality of the Arabian Peninsula Climate Time Scale. I proposed the Arabian Peninsula

Climate Time Scale to study the Arabian Peninsula climate.

Formation:

The Arabian Peninsula Climate Time Scale is a chronological sequences of events arranged in between time and climate with the help of a scale for studying the past's, present and future conditions of the Arabian Peninsula region and its relationship with rainfall and other weather problem and natural calamities. Prepare the Arabian Peninsula Climate Time Scale having 365 horizontal days from March 21st to next year March 20th or a required period comprising of a large time and climate have been taken and framed into a square graphic scale.

Data collection: The monsoonal pulses or dust storms or any main weather events if any of the Arabian Peninsula region have been taken as the data to prepare this Arabian Peninsula Climate Time Scale.

Management: The main weather events if any of the Arabian Peninsula climate have been entering on the Arabian Peninsula Climate Time Scale as per date and month of the each and every year. If we have been managing this scale in this manner continuously, we can study the past, present and future movements of Arabian Peninsula climate.

Indian Monsoon Time Scale:

In order to make the Arabian Peninsula Climate Time Scale, I prepared a model scale for the Indian monsoon named Indian Monsoon Time Scale, it is a compelling scale to prepare the Arabian Peninsula Climate Time Scale. Take Indian Monsoon Time Scale as an example to develop the Arabian Peninsula Climate Time Scale.

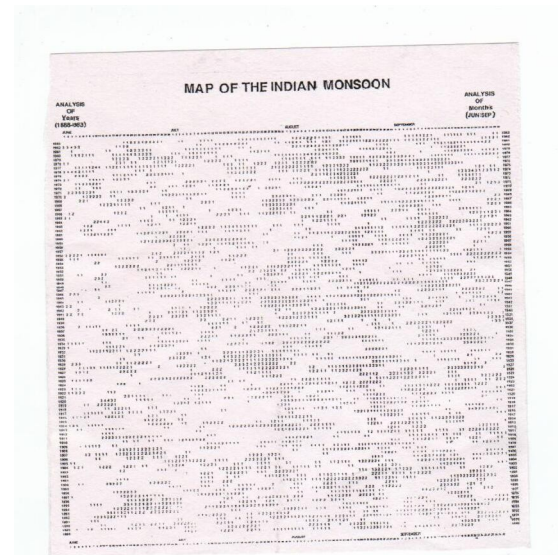
I prepared Indian Monsoon Time Scale having 365 horizontal days from March 21st to next year March 20th or from 1st April to next year March 31st of 139 years from 1888 to 2027 or a required period comprising of a large time and weather have been taken and framed into a square graphic scale. The monsoon pulses in the form of low pressure systems over the Indian region have been taken as the data to construct this scale. For this, a lot of enormous data of low pressure systems, depressions and cyclone have been taken.

Management:

The monsoon pulses in the form of low pressure systems over the Indian region have been entering on the scale in stages by 1 for low, 2 for depression, 3 for storm, 4 for severe storm and 5 for severe storm with core of hurricane winds pertaining to the date and month of the each and every year. If we have been managing the scale in this manner continuously, we can study the past, present and future movements of monsoon of India.

Results:

Keep track the Indian Monsoon Time Scale carefully. During 1871-1900's the main pathway of the Indian Monsoon was rising over June, July, August. During 1900-1920's it was falling over August, September. During 1920-1965's, it was rising again over July, August, September. During 1965-2004's it was falling over falling over September. From 2004 it is now rising upwards and estimated that it will be traveling over the months of June, July, August by the 2060.



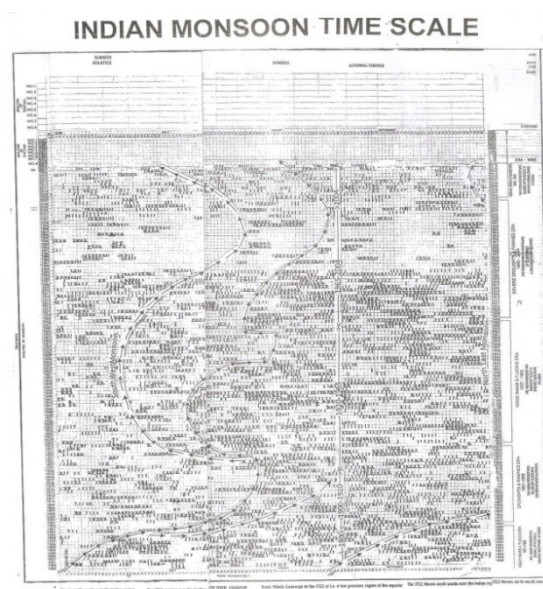
Study & discussion:

Let's now study and analyze the information available on the Indian Monsoon Time Scale with the rainfall data available from 1871 to 2015. During the period 1871-2015, there were 19 major flood years: 1874, 1878, 1892, 1893, 1894, 1910, 1916, 1917, 1933, 1942, 1947, 1956, 1959, 1961, 1970, 1975, 1983, 1988, 1994. And in the same period 1871-2015, there were 26 major drought years: 1873, 1877, 1899, 1901, 1904, 1905,

1911, 1918, 1920, 1941, 1951, 1965, 1966, 1968, 1972, 1974, 1979, 1982, 1985, 1986, 1987, 2002, 2004, 2009, 2014, 2015. Depending on the data mentioned above, it is interesting to note that there have been alternating periods extending to 3-4 decades with less and more frequent weak monsoons over India.

For example, the 44-year period 1921-64 witnessed just three drought years and happened good rainfall in many years. This is the reason that when looking at the Indian Monsoon Time Scale you may note that during 1920-1965's, the passage of the Indian monsoon had been rising over July, August, September in the shape of concave direction and resulting good rainfall in more years..

During the other period that of 1965-87 which had as many as 10 drought years out of 23, This is the reason that when looking at the Indian Monsoon Time Scale you may note that during 1965-2004's the path of the Indian monsoon had been falling over the September in the shape of convex direction and causing low rainfall and droughts in many years.



The year to year change of movement of axis of the earth inclined at $23\frac{1}{2}$ degrees from vertical to its path around the sun does play a significant role in formation of clusters, bands & paths of the Indian Monsoon and stimulates the Indian climate. The inter-tropical convergence zone at the equator follows the movement of the sun and shifts north of the equator merges with the heat low pressure zone created by the rising heat of the sub-continent due to direct and converging rays of the summer sun on the India Sub-Continent and develops into the monsoon trough and maintain monsoon circulation.

Conclusion:

The Arabian Peninsula Climate Time Scale I proposed is a preliminary invention. I have worked hard to design it in manual. Researchers have to do more researches on the Arabian Peninsula Climate Time Scale and establish a computer model.

References:

- 1) Mooley DA, Shukla J(1987); Characteristics of the west ward-moving summer monsoon low pressure systems over the Indian region and their relationship with the monsoon rainfall. Centre for ocean-land atmospheric interactions, university of Maryland, College,park, MD